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APPLICATION NO. 75	FILING DATE 6/13/97	FIRST NAMED INVENTOR KAUFTEMAN	ATTORNEY DOCKET NO. S 2860-2/
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EXAMINER	
HOUTTEMAN, S	
ART UNIT	PAPER NUMBER
1656	18

DATE MAILED: 08/29/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
08/882,950

Applicant(s)

Kauffman et al.

Examiner

Scott Houtteman

Group Art Unit
1656



Responsive to communication(s) filed on Sep 14, 1999

This action is FINAL.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle 835 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

- Claim(s) 1-50 is/are pending in the application.
- Of the above, claim(s) _____ is/are withdrawn from consideration.
- Claim(s) _____ is/are allowed.
- Claim(s) 1-50 is/are rejected.
- Claim(s) _____ is/are objected to.
- Claims _____ are subject to restriction or election requirement.

Application Papers

- See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- The drawing(s) filed on _____ is/are objected to by the Examiner.
- The proposed drawing correction, filed on _____ is approved disapproved.
- The specification is objected to by the Examiner.
- The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- All Some* None of the CERTIFIED copies of the priority documents have been received.
- received in Application No. (Series Code/Serial Number) _____.
- received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

- Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- Notice of References Cited, PTO-892
- Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- Interview Summary, PTO-413
- Notice of Draftsperson's Patent Drawing Review, PTO-948
- Notice of Informal Patent Application, PTO-152

-- SEE OFFICE ACTION ON THE FOLLOWING PAGES --

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1. The request filed on 3/14/2000 for a Continued Prosecution Application (CPA) under 37

CFR 1.53(d) based on parent Application No. 08/882,950 is acceptable and a CPA has been established. An action on the CPA follows.

2. Applicant's response, filed 3/20/1998, has been carefully considered with the following effect:

All objections and rejections of the Office action mailed 9/14/99, have been maintained.

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. The disclosure is objected to because of the following informalities:

A. The Abstract is missing; and,

B. The first paragraph of the specification suggests that the application is continuation of 08/537,736 which is a CIP 08/049,268. Application No. 08/537,736, however, was filed under Rule 371. See Transmittal Letter filed 17 October 1995. Amendment is suggested to recite:

--This application is a continuation of 08/537,736, now abandoned, which is the national filing of PCT Application No. PCT/US94/04314, which is a continuation in part of US Application No. 08/049,268, now abandoned.--

Appropriate correction is required.

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5. The following is a quotation of the first paragraph of 35 U.S.C. § 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-50 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 1-50 are drawn to methods for production of an organic molecule. However, the claims are not limited to any specific method of production. They are generic with respect to the number and chemical composition of the reagents from enzymes to all common reactive organic molecules to amino acids to nucleotides. They are generic with respect to the types and number of reactions. They are not specific with respect to the method by which the numerous steps of the combinatorial chemistry is carried out, whether the solid support will be beads, or reaction vessels or photo active solid surfaces. Finally, the methods are not specific with the type of "selection" one will use to isolate the desired organic molecule.

Thus, these claims read on the production of any molecule, any chemotherapy drug, any enzyme, any DNA molecule, any drug molecule with any pharmacological activity whether it dulls pain, lowers blood pressure, cures cancer or restores hair loss. All of these molecules could be made by the claimed methods and thus are within the scope of these claims.

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The specification merely exemplifies the synthesis of a peptide library. The selection method is very straight forward. One merely screens for a desired enzymatic activity.

Lacking any more guidance it would require undue experimentation to enable a reasonable number of organic molecule production methods. One would have to work out the details of how the multiple rounds of reactions are carried out, how the various reactants are brought into contact with the growing molecule, how the waste products are washed away and how the desired product is isolated from the myriad exogenous products. One would have to develop selection schemes for diverse purposes such as pain killers, blood pressure lowering, cancer cures and restoring hair loss. Thus, in view of the lack of guidance, large claim scope and unpredictability of developing "selection schemes" it would require undue experimentation to enable a reasonable number of embodiments of these claims.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. § 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. § 102(f) or (g) prior art under 35 U.S.C. § 103.

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7. Claims 1-50 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Jacobs et al., Trends Biochem., 12(1):19-26, 1/1994 (Jacobs). Note that this is a review article and so the relevant "prior art" date is the date of the original publication of the work not the date of publication of the review article.

Jacobs teaches: isolating from a final reaction, determination of structures (p. 21, Fig 4), repetition, a core structure, the various starting group reactants: amino acids, nucleotides, enzymes, (p. 20, fig. 2, p. 21 col. 1 and p. 24, fig 7), various selection methods p. 20, col 2 and (p. 24, col. 2), synthesis of peptides and oligonucleotides (p. 20), pools of up to 10^8 - 10^9 members (p. 20, col. 1), reduction, oxidation and condensation (p. 20, col. 2), light exposing (p. 21, fig 3). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to combine the various techniques of Jacobs for the expected benefit of "screening extremely large numbers of molecules of potential therapeutic value (Jacobs p. 19, col.1)."

8. Papers relating to this application may be submitted to Technology Center 1600 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The Technology Center 1600 Fax numbers are (703) 305-3014 and 308-4242.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Houtteman whose telephone number is (703) 308-3885. The examiner can normally be reached on Monday, Tuesday, Thursday and Friday from 8:30 AM - 3:30 PM. The examiner can also be reached on alternate Wednesdays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached at (703) 308-1152.

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist whose telephone number is (703) 308-0196.

Scott Houtteman
March 27, 2000



SCOTT W. HOUTTEMAN
PRIMARY EXAMINER